

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE **X** WATER SANDS LOCATION INSPECTED **GAS** SUB REPORT/abd
 Location abandoned well never drilled, ~~8-31-81~~ 12-29-82

DATE FILED **8-24-81**

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO

U-47178

INDIAN

DRILLING APPROVED: ~~8-31-81~~**9-2-81**

SPUDDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY API

GOR:

PRODUCING ZONES

TOTAL DEPTH:

WELL ELEVATION

4810' 12-29-82

DATE ABANDONED:

~~AAA-18, 1982~~**LOCATION ABANDONED, WELL NEVER DRILLED**FIELD **WILDCAT 3/86**

UNIT:

COUNTY **Grand**WELL NO **Butler Canyon Unit USA #3-16**API #**43-049-30844**LOCATION ~~4243 1/2~~ FT. FROM **XX** (S) LINE.**625**FT. FROM (E) **X** LINE.**SE SE**1/4 - 1/4 SEC. **3**

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

20S**17E****3****Tenneco Oil Co.**



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

IN REPLY REFER TO

3109
(U-603)

MAR 20 1981

Mr. Lee Freeman
Tenneco Oil Co.
P. O. Box 3249
Englewood, CO. 80155

Subject: Staking Request (PER)
Well: Butler Canyon Unit USA 3-16
Section 3, T. 20 S., R. 17 E.
Grand County, Ut.

Dear Mr. Freeman:

This office has no objections to staking the above subject location.

Would you include your bond number when submitting your application to drill. In addition you should be knowledgeable that Grand County requires a permit if you plan to use a county road as a portion of your access road. You should contact the County Road Supervisor. An archaeological clearance must be obtained after staking the site(s).

Furthermore, you should be aware that this location is out of the Desolation Canyon WSA (UT-060-068A) but is subject to Interim Management Policy (IMP) until the expiration of the appeals timeframe following resolution of a public protest. The protest was amended February 26, 1981 but is subject to appeal by affected parties until April 6, 1981. If no appeal is received the location will no longer be subject to IMP.

Sincerely yours,

Colin P. Christensen
Area Manager

cc:
Grand County Road Supervisor

RECEIVED

MAR 24 1981

TENNECO OIL CO.
DENVER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. USA U-47178
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME Butler Canyon
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155		8. FARM OR LEASE NAME Butler Canyon Unit USA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 423.5 FSL, 625.5 FEL At proposed prod. zone same		9. WELL NO. 3-16
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx. 11 miles NE of Green River, Utah		10. FIELD AND POOL, OR WILDCAT Entrada Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1723.5'	16. NO. OF ACRES IN LEASE 7955	17. NO. OF ACRES ASSIGNED TO THIS WELL 360 approx.
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. approx. 1 miles	19. PROPOSED DEPTH ±5790	20. ROTARY OR CABLE TOOLS rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 4810'		22. APPROX. DATE WORK WILL START* September 15, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" new	36#	±300'	Circulate to surface
8 3/4"	7" new	23#	±1000'	Circulate to surface
6 1/2"	4 1/2" new	10.5#	±5790'	Sufficient to cover all productive zones

See attached drilling procedure.

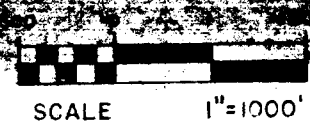
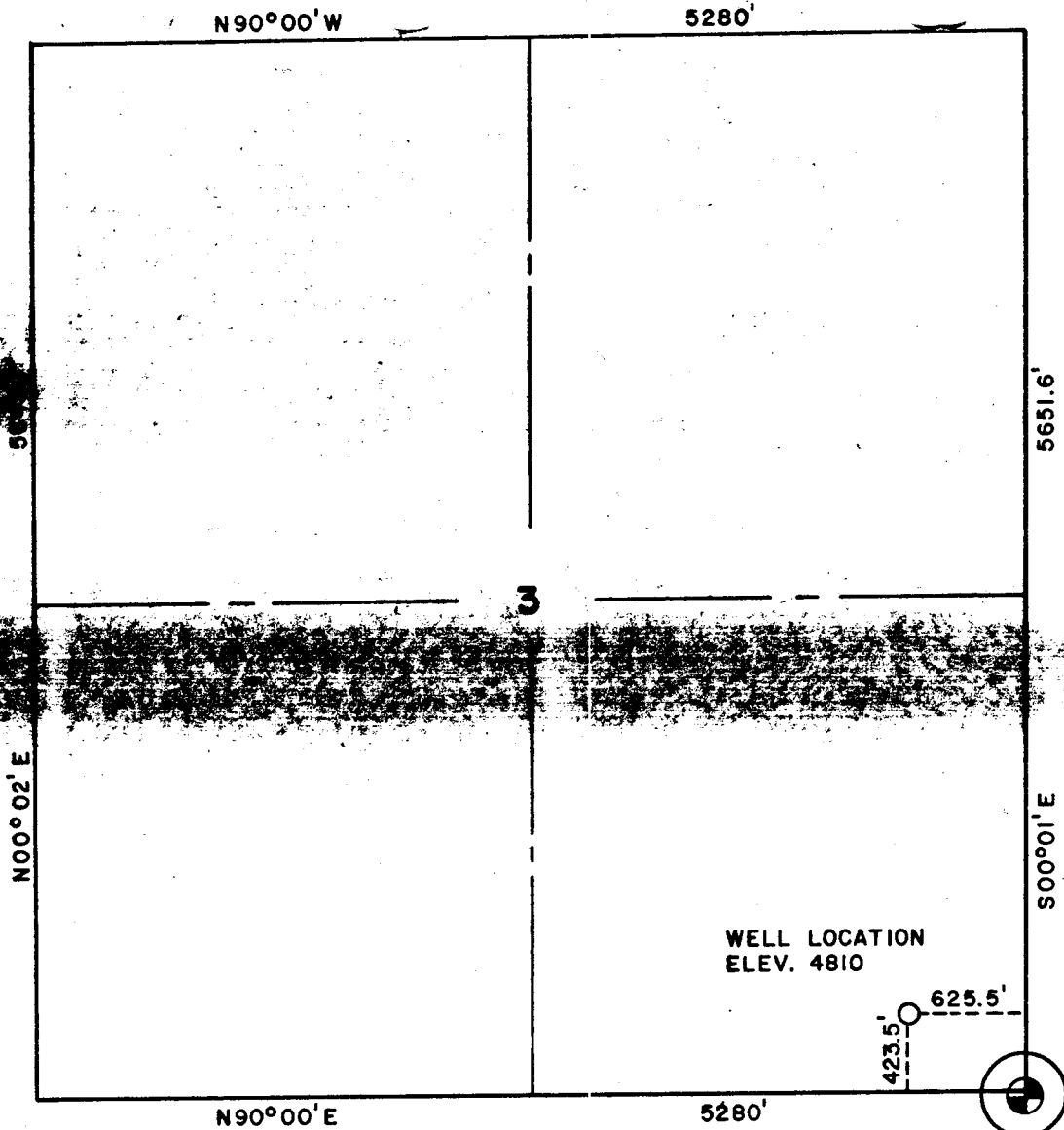
An archaeological report has been ordered.

Pre-stake clearance attached.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MININGDATE 8-31-81 DIVISION OF
BY: M. T. Mendenhall GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

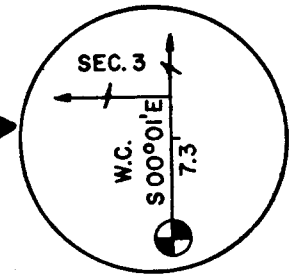
24. SIGNED R. A. Mishler TITLE Sr. Production Analyst DATE August 21, 1981
(This space for Federal or State office use)PERMIT NO. 43-49-30844 APPROVAL DATE _____APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



LEGEND

- FOUND USBLM CADASTRAL BRASS CAP
- BASIS OF BEARING SOLAR OBSERVATION

WELL LOCATION
 423.5 FT. N.S.L. - 625.5 FT. W.E.L.
 SECTION 3, T.20S., R.17E., S.L.B. & M.
 GRAND COUNTY, UTAH



SURVEYOR'S CERTIFICATE

I, Edward A. Armstrong, a registered land surveyor in the State of Utah, do hereby certify that this survey was made under my direct supervision and that this plat represents said survey.

Edward A. Armstrong
 EDWARD A. ARMSTRONG P.E. & S. 4464



	ARMSTRONG ENGINEERS AND ASSOCIATES, INC.	
	ENGINEERING • SURVEYING • MAPPING • LAND ACQUISITION	
	1100 K. AVENUE, SUITE 100, GRAND CANYON, UTAH 84001	
	PHONE (435) 633-1100	
1"=1000'	3/30/81	TENNECO OIL BUTLER CANYON UNIT USA 3-16
RLC	EAA	
3/24/81	SHEET 1 of 5	
		JOB NUMBER 813282

**** FILE NOTATIONS ****

DATE: Aug 28, 1981
OPERATOR: Jenneco Oil Co.
WELL NO: Butler Canyon Unit U.S.A. #3-16
Location: Sec. 3 T. 20S R. 17E County: Grand

File Prepared: ☒ Entered on N.I.D: ☒
Card Indexed: ☒ Completion Sheet: ☒

API Number 43-019-30844

CHECKED BY:

Petroleum Engineer: M. J. Minder 8-31-81

Director: _____

Administrative Aide: ok Huntwell,

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. _____ O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site ☐

Lease Designation ☒ Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☒

P.I. ☒

September 2, 1981

Tenneco Oil Company
P. O. Box 3249
Englewood, Colo. 80155

RE: Well No. Butler Canyon Unit USA #3-16,
Sec. 3, T. 20S, R. 17E,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-3771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30844.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



Michael T. Minder
Petroleum Engineer

MTM/db
CC: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1723.5'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 3, T20S, R17E		
16. NO. OF ACRES IN LEASE 7955			12. COUNTY OR PARISH Grand		
17. NO. OF ACRES ASSIGNED TO THIS WELL 360 approx.			13. STATE Utah		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. approx. 1 miles			19. PROPOSED DEPTH ±5790		
20. ROTARY OR CABLE TOOLS rotary			21. APPROX. DATE WORK WILL START* September 15, 1981		
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See attached drilling procedure.

An archaeological report has been ordered.

Pre-stake clearance attached.

RECEIVED

NOV 25 1981

DIVISION OF
OIL & GAS ENGINEERING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED R. A. Mishler TITLE Sr. Production Analyst DATE August 21, 1981
(This space for Federal or State office use)

PERMIT NO. WT 7000 APPROVAL DATE NOV 20 1981
APPROVED BY E. W. GUYNN FOR DISTRICT OIL & GAS SUPERVISOR DATE NOV 20 1981
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

NOTICE OF APPROVAL

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

State of CO

Identification No. 590-81

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator TENNECO OIL COMPANY
Project Type GAS WELL
Project Location 424' FSL, 626' FEL, SEC 3, T20S R17E
Well No. 3-16 Lease No. U-47178
Date Project Submitted 8-24-81

FIELD INSPECTION

Date 8-25-81

Field Inspection
Participants

<u>GEORGE DIWACHAK</u>	<u>USGS</u>
<u>JEFF ROBBINS</u>	<u>BLM</u>
<u>R.A. MISHLER</u>	<u>TENNECO</u>
_____	_____
_____	_____
_____	_____

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

11/13/81
Date Prepared

George J. Diwachak
Environmental Scientist

I concur

11/16/81
Date

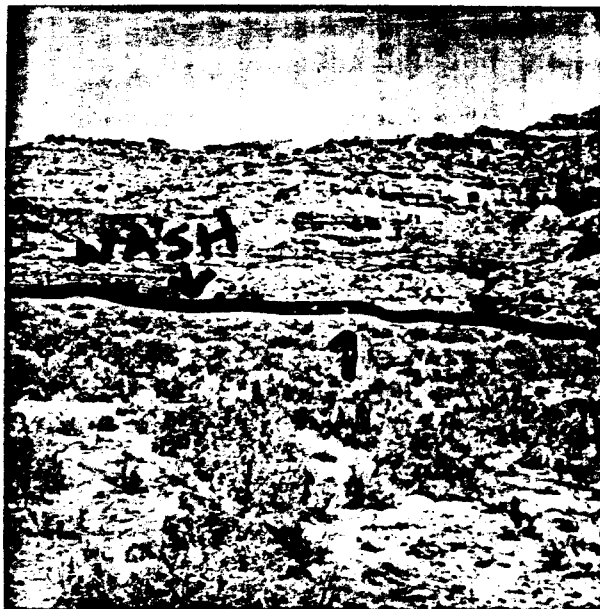
E. W. Layman
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety	1 (11-4-81)				9		6	6 (8-25-81)	4,8
2. Unique charac- teristics	1 (11-4-81) (9-3-81)				9		6	6	4,8
3. Environmentally controversial	1 (11-4-81) (9-3-81)				9		6	6	
4. Uncertain and unknown risks	1 (11-4-81) ↓				9		6	6	4,8
5. Establishes precedents	1				9		6	6	
6. Cumulatively significant					9		6	6	4
7. National Register historic places	1				9				
8. Endangered/ threatened species	1				9				
9. Violate Federal, State, local, tribal law	1				9		6	6	4,8

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey
(Conservation Division, Geological Division, Water Resource Division,
Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. RECOMMENDED STIPULATIONS
9. REFERENCE ENVIRONMENTAL ASSESSMENT NO 582-81/590-81
FOR TENNECO OIL COMPANY WELLS 10-3 / 3-16,
SEC 10/3 T 20S R 17E, U-47178



TENNECO 3-16

↑
NW

RECOMMENDED STIPULATIONS

1. Federal Lease No. U-47178, issued August 1, 1981, lies within a Wilderness Unit under protest and as such is subject to certain regulations of the Federal Land Policy and Management Act of 1976 (FLPMA). These non-impairment regulations are set forth in the Interim Management Policy and Guidelines for Lands under Wilderness Review (IMP), and stipulated in lease U-47178. Because the unit is under appeal its status may change without prior notice. If the Interior Board of Land Appeals (IBLA) decides contrary to the Bureau of Land Management's recommendations to drop the Left Hand Tusher Canyon Region from further wilderness considerations, the wellsite and access road must be reclaimed beginning in 1986 with reseeded done during the fall of 1986. Lease U-47178 is subject to IMP until such time as Congress determines it shall be designated as Wilderness or the area is dropped from further consideration. If the IBLA accepts the BLM's recommendation for the Wilderness Unit, the activity will not be affected by wilderness regulations.
2. All construction and rehabilitation activities must adhere to the Wilderness Protection Stipulations of Federal lease U-47178 (copy attached).
3. See BLM Stipulations (attached).
4. Gamma Ray Logs shall be run behind the surface casing to identify coal beds.
5. All fresh water aquifers penetrated must be isolated with cement.

UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
UTAH STATE OFFICE

WILDERNESS PROTECTION STIPULATION

By accepting this lease, the lessee acknowledges that the following described lands are being inventoried or evaluated for their wilderness potential by the Bureau of Land Management (BLM) under section 603 of the Federal Land Policy and Management Act of 1976, 90 Stat. 2743 (43 USC Sec. 1782), and that exploration or production activities which are not in conformity with section 603 may never be permitted. Expenditures in leases on which exploration drilling or production are not allowed will create no additional rights in the lease, and such leases will expire in accordance with law.

Activities will be permitted under the lease so long as BLM determines they will not impair wilderness suitability. This will be the case either until the BLM wilderness inventory process has resulted in a final wilderness inventory decision that an area lacks wilderness characteristics, or in the case of a wilderness study area until Congress has decided not to designate the lands included within this lease as wilderness. Activities will be considered nonimpairing if the BLM determines that they meet each of the following three criteria:

(a) It is temporary. This means that the use or activity may continue until the time when it must be terminated in order to meet the reclamation requirement of paragraphs (b) and (c) below. A temporary use that creates no new surface disturbance may continue unless Congress designates the area as wilderness, so long as it can easily and immediately be terminated at that time if necessary to management of the area as wilderness.

(b) Any temporary impacts caused by the activity must, at a minimum, be capable of being reclaimed to a condition of being substantially unnoticeable in the wilderness study area (or inventory unit) as a whole by the time the Secretary of the Interior is scheduled to send his recommendations on that area to the President, and the operator will be required to reclaim the impacts to that standard by that date. If the wilderness study is postponed, the reclamation deadline will be extended accordingly. If the wilderness study is accelerated, the reclamation deadline will not be changed. A full schedule of wilderness studies will be developed by the Department upon completion of the intensive wilderness inventory. In the meantime, in areas not yet scheduled for wilderness study, the reclamation will be scheduled for completion within 4 years after approval of the activity. (Obviously, if and when the Interim Management Policy ceases to apply to an inventory unit dropped from wilderness review following a final wilderness inventory decision of the BLM State Director, the reclamation deadline previously specified will cease to apply.) The Secretary's schedule for transmitting his recommendations to the President will not be changed as a result of any unexpected inability to complete the reclamation by the specified date, and such inability will not constrain the Secretary's recommendation with respect to the area's suitability or unsuitability for preservation as wilderness.

The reclamation will, to the extent practicable, be done while the activity is in progress. Reclamation will include the complete recontouring of all cuts and fills to blend with the natural topography, the replacement of topsoil, and the restoration of plant cover at least to the point where natural succession is occurring. Plant cover will be restored by means of reseeding or replanting, using species previously occurring in the area. If necessary, irrigation will be required. The reclamation schedule will be based on conservative assumptions with regard to growing conditions, so as to ensure that the reclamation will be complete, and the impacts will be substantially unnoticeable in the area as a whole, by the time the Secretary is scheduled to send his recommendations to the President. ("Substantially unnoticeable" is defined in Appendix F of the Interim Management Policy and Guidelines for Lands under Wilderness Review.)

(c) When the activity is terminated, and after any needed reclamation is complete, the area's wilderness values must not have been degraded so far, compared with the area's values for other purposes, as to significantly constrain the Secretary's recommendation with respect to the area's suitability or unsuitability for preservation as wilderness. The wilderness values to be considered are those mentioned in section 2(c) of the Wilderness Act, including naturalness, outstanding opportunities for solitude or for primitive and unconfined recreation, and ecological, geological or other features of scientific, educational, scenic, or historical value. If all or any part of the area included within the leasehold estate is formally designated by Congress as wilderness, exploration and development operations taking place or to take place on that part of the lease will remain subject to the requirements of this stipulation, except as modified by the Act of Congress designating the land as wilderness. If Congress does not specify in such act how existing leases like this one will be managed, then the provisions of the Wilderness Act of 1964 will apply, as implemented by rules and regulations promulgated by the Department of the Interior.



All the lands in the lease.





United States Department of the Interior

IN REPLY REFER TO

3109
(U-068)

BUREAU OF LAND MANAGEMENT
Moab District
Grand Resource Area
P.O. Box M
Moab, Utah 84532

NOV 4 1981

Memorandum

To: Oil & Gas Office
USGS Conservation Division
P.O. Box 3768
Grand Junction, Colorado 81502

From: Area Manager, Grand

Subject: Permit to Drill (APD)
Tenneco Oil
Well: 3-16
Section 3, T. 20 S., R. 17 E.
Grand County, Utah

On August 25, 1981 a representative from this office met with George Diwachak, USGS, and Bob Mishler agent of the Tenneco Oil for an inspection of the above referenced location. Subject to the attached conditions and an approved application to drill from the USGS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

The lessee is advised that this lease lies within a wilderness inventory unit under appeal and as such is subject to certain regulation under the Federal Land Policy and Management Act of 1976 (FLPMA). These regulations are set forth in the Interim Management & Policy (IMP). Because this unit is under appeal its status may change without prior notice to the User. This WSA is subject to IMP until such time as Congress determines it shall be designated as Wilderness or drops the area from further consideration.

Please forward this information to Tenneco Oil Corporation.

Enclosures: (4)
1-Reclamation Procedures
2-Suggested Color Hues
3-Road Standards
4-Seed Mixture

Noted - G. Diwachak
NOV 12 1981

ADDITIONS TO THE MULTIPOINT
SURFACE USE PLAN
AND
RECLAMATION PROCEDURES

CONSTRUCTION:

- 1). The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) for pre-construction conference at the proposed site with the dirt contractor. When excavation begins, the dirt contractor will contact the Grand Resource Area Office. A BLM representative will be on the location at the beginning phases of the excavation.
- 2). The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
- 3). Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
- 4). If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- 5). Improvement to the existing road will not be necessary. The total disturbed width allowed will be as is. The allowable travel surface will be as is.

New road construction will be limited to a total disturbed width of 24 feet. The allowable travel surface width will be 18 feet. For construction design and survey refer to class III road standards attachment. The road will remain out of the wash as much as possible. There were some changes to the existing county road made at the field exam. Any changes to the existing alignment have been flagged with red/white striped tape. The access to the 3-16 will come off of the 10-3 and cross the wash. All wash crossings will be low-water crossings.

Topsoil will not be saved along the route.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

LOCATION:

The excavation of the location will remain on the flats with maximum cut of 7 feet.

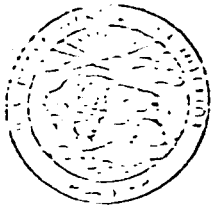
- 6). The top 8" inches of soil material will be removed from the location and stockpiled separate from the trees on the East/Southeast side of the location.
- 7). The reserve pit will not be lined. Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8" lifts, machinery compacted, and sufficiently wide for equipment to pass over.
- 8). Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 4 strand barbed wire.
- 9). This location is in a wilderness inventory unit under appeal (068A). Because the lease was granted in 1981, this proposed activity comes under the "nonimpairment" criteria of the interim management policy. If the Interior Board of Land Appeals accepts the BLM's recommendation in 068A, the proposed activity will not be affected by wilderness regulations..

Production

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. All of the stockpiled topsoil will be used in reclaiming the unused areas.
2. All above-ground production facilities will be painted using the attached suggested colors.
3. Production facilities will be placed on the upper slopes in the event of major flooding.

Rehabilitation

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit/cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures. A BLM representative will direct the contractor on the specific recontouring needs at this time, so that the site will be substantially unnoticeable by the time the Secretary is scheduled to send his recommendations to the President.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpile topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 12 to 18 inches. Do not smooth pad out, leave a roughened surface.
7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.
8. After seeding is complete the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent any use/vehicle use.
9. If the Interior Board of Land Appeals decides contrary to the BLM's recommendations, this proposed activities needs to be reclaimed including the access road up the left hand of Tusher Canyon beginning in the 1986. The restored areas will be seeded during the fall of 1986.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS

PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Prait & Lambert)
Desert Tan	-----
Sage Gray	(Prait & Lambert)

Bookcliffs Region:

Sage Gray	(Prait & Lambert)
Sea Life	(Prait & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

SEED MIXTURE

List #7

Drainage Bottoms;
perennial washes, from
Bookcliff to I-70 in
Nash, Cottonwood, Hay,
Middle, E. Canyon, etc.

Species

Grasses

Hilaria jamesii	Galleta (Curlygrass)	1
XXXXXXX XXXXXX ^{XX}	XXXXXXXXXXXX	
Sporobolus cryptandrus	Sand dropseed	1
Oryzopsis hymenoides	Indian Ricegrass	1

Forbs

Aster chilensis	Pacific aster	1/2
Helianthus annuus	Common sunflower (Kansas sunflower)	1
Sphaeralcea coccinea	Scarlet globemallow	1/2

Shrubs

Eurotia lanata	Winterfat (Whitesage)	1
Atriplex canescens	Fourwing saltbush	1

7 #/ac.



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 6, 1982

Tenneco Oil Exploration & Production
P. O. Box 3249
Englewood, Colorado 80155

Re: See attached

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

Well No. Middle Canyon Unit #23-16
Sec. 23, T. 16S, R. 24E.
Grand County, Utah

Well No. Middle Canyon Unit #27-12
Sec. 27, T. 16S, R. 24E.
Grand County, Utah

Well No. TOC TXO POGO USA #15-9
Sec. 15, T. 17S, R. 24E.
Grand County, Utah

Well No. Sulphur Canyon Unit #17-9
Sec. 17, T. 18S, R. 24E.
Grand County, Utah

~~Well No. Butler Canyon USA #3-16~~
~~Sec. 3, T. 20S, R. 17E.~~
~~Grand County, Utah~~

Well No. Butler Canyon USA #10-3
Sec. 10, T. 20S, R. 17E.
Grand County, Utah

LA

Tenneco Oil Exploration and Production

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6061 South Willow Drive
Englewood, Colorado



May 18, 1982

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
Attn: Cari Furse
4241 State Office Building
Salt Lake City, UT 84114

Dear Ms. Furse:

In regard to your letter of May 6, 1982, Tenneco does not intend to drill the following wells:

LA
~~Middle Canyon Unit 23-16
Sec. 23, T16S, R24E
Grand County, UT~~

✓ Butler Canyon USA 3-16
Sec. 3, T20S, R17E
Grand County, UT

✓ Middle Canyon Unit 27-12
Sec. 27, T16S, R24E
Grand County, UT

✓ Butler Canyon USA 10-3
Sec. 10, T20S, R17E
Grand County, UT

~~Sulphur Canyon Unit 17-9
Sec. 17, T18S, R24E
Grand County, UT~~

Tenneco plans to drill the following well at a later date:

TOC TXO POGO USA 15-9
Sec. 15, T17S, R24E
Grand County, UT

Sincerely

TENNECO OIL COMPANY

Denise Wilson

Denise Wilson
Production Analyst

DW:jt

alone

Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

December 29, 1982

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Re: Rescind Applications for Permit to
Drill
Well No. 10-3
Section 10, T.20S., R.17E. *LA*
Lease U-47178

Well No. 3-16
Section 3, T.20S., R.17E. *LA*
Lease U-47178
Both in Grand County, Utah

Gentlemen:

The Applications for Permit to Drill the referenced wells were approved on November 10, 1981 and November 20, 1981, respectively. Since that date no known activity has transpired at the approved locations. Under District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced applications without prejudice. If you intend to drill at these locations at a future date, new applications for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved locations of the wells will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

E. W. Gynn
District Oil & Gas Supervisor

E. W. Gynn
District Oil and Gas Supervisor

bcc: SMA
State O&G ✓
State BLM
Vernal
Well File
APD Control

WPM/kr

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR
Tenneco Oil Co.

3. ADDRESS OF OPERATOR
Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 423.5' FSL, 625.5' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT FOR

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

RECEIVED
JAN 14 1983

DIVISION OF
OIL, GAS & MINING

5. LEASE
USA - U - 47178

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Butler Canyon

8. FARM OR LEASE NAME
Butler Canyon Unit USA

9. WELL NO.
3-16

10. FIELD OR WILDCAT NAME
Entrada Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3, T20S, T17E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4810' GR

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please be advised that no surface disturbance was made on the above-referenced well-site.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Denise Wilson TITLE Production Analyst DATE January 10, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: Mesaverde
- 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)
4. Proposed Casing Program:

(See Attached Drilling Procedure)
5. Blowout Preventors:
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.)
7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
10. The drilling of this well will start approximately (Sept. 15, 1981) and continue for 20 to 25 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

DRILLING PROCEDURE

(Revised following
field survey)

DATE: April 15, 1981

LEASE: Butler Canyon Unit USA

WELL NO.: 3-16

LOCATION: 423.5' FSL, 625.5 FEEL
Section 3, T20S, R17E
Grand County, Utah

FIELD: Wildcat

ELEVATION: 4810' (surveyed)

TOTAL DEPTH: 5790'

PROJECTED HORIZON: Entrada

SUBMITTED BY: Mark Kangas

DATE: April 16, 1981

APPROVED BY: Tom Running

DATE: 5/5/81

CC: Administration
DSB Well File
Field File

ESTIMATED FORMATION TOPS

Mesaverde	Surface
Mancos-Buck Tongue	550'
Castlegate	700' (Water/Gas)
Mancos "B" - Top	1650'
Mancos "B" - Base	2500'
Dakota Silt	4510' (Gas)
Dakota	4655' (Gas)
Morrison	4970' (Gas)
Entrada	5740' (Gas)
T.D.	5790'

1. No abnormal pressures, temperatures or H_2S is anticipated on this hole.
2. Reserve pit shall be fenced on 3 sides during drilling operations in order to comply with BLM and USGS regulations.

DRILLING, CASING, AND CEMENT PROGRAM

1. MURJUT. Set conductor pipe as needed.
2. Drill 12 1/4" hole to 300' with mud. Run 9 5/8", 36#, K-55, ST&C, casing to TD and cement with sufficient volume to circulate cement to the surface.
3. WOC. Nipple up casing head, BOP's, rotating head, bleed line, and choke manifold. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes. Drill out shoe and dry up hole.
4. Drill 8 3/4" hole to 1000' or 200 feet into the Castlegate Formation.
5. Log well as per G.E. department recommendations.
6. Run 7", 23#, K-55, ST&C casing to T.D. Cement with sufficient volume to circulate cement to the surface.
7. WOC. Nipple up casing spool, BOP's, rotating head, bleed line, and choke manifold. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes. Drill out shoe and dry up hole.
8. Drill 6 1/4" hole to T.D.
9. Log well as per G.E. department recommendations.
10. If well is productive, run 4 1/2", 10.5#, K-55, ST&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
11. If the well is non-productive, P & A as per Regulatory Agency specifications.

CASING PROGRAM

CONDUCTOR:	As needed.		
SURFACE:	0-300	300'	9 5/8", 36#, K-55, ST&C
INTERMEDIATE:	0-1000	1000'	7", 23#, K-55, ST&C
PRODUCTION:	0-5790	5790'	4 1/2", 10.5#, K-55, ST&C

MUD PROGRAM

0-300 Spud mud. Viscosity as needed to clean hole.

300-1000 Air or Air/Mist.

1000-5790 Air or Air/Mist.

NOTE: Should the hole become wet or encounter large gas flows which require mud up, keep the weight as low as possible, vis as needed, and W.L. + 6 cc.

EVALUATION

Cores and DST's:

None.

Deviation Surveys:

0-300 Every 100' unless hole conditions prohibit running the surveys.
Maximum deviation at T.D. 1° .

300-1000 Every 500' or on trips. Maximum deviation 1° per 100' or $1\frac{1}{2}^{\circ}$ at TD.

1000-5790 Every 500' or on trips. Maximum deviation 1° per 100' or 6° at TD.

Samples:

Samples to be taken at 20' intervals from surface casing to Frontier and at 10' intervals from Frontier to T.D. A two-man mud logging unit will be on location from surface casing to T.D.

Logs:

Surface Hole - as specified by G.E. Department.

Production Hole - as specified by G.E. Department.

BLOWOUT EQUIPMENT

1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
2. Rotating head on air or air/mist holes.
3. Preventors must be checked for operation every 24 hours. This check must be recorded on the IADC Drilling Report Sheet.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 A.M. Monday thru Friday.

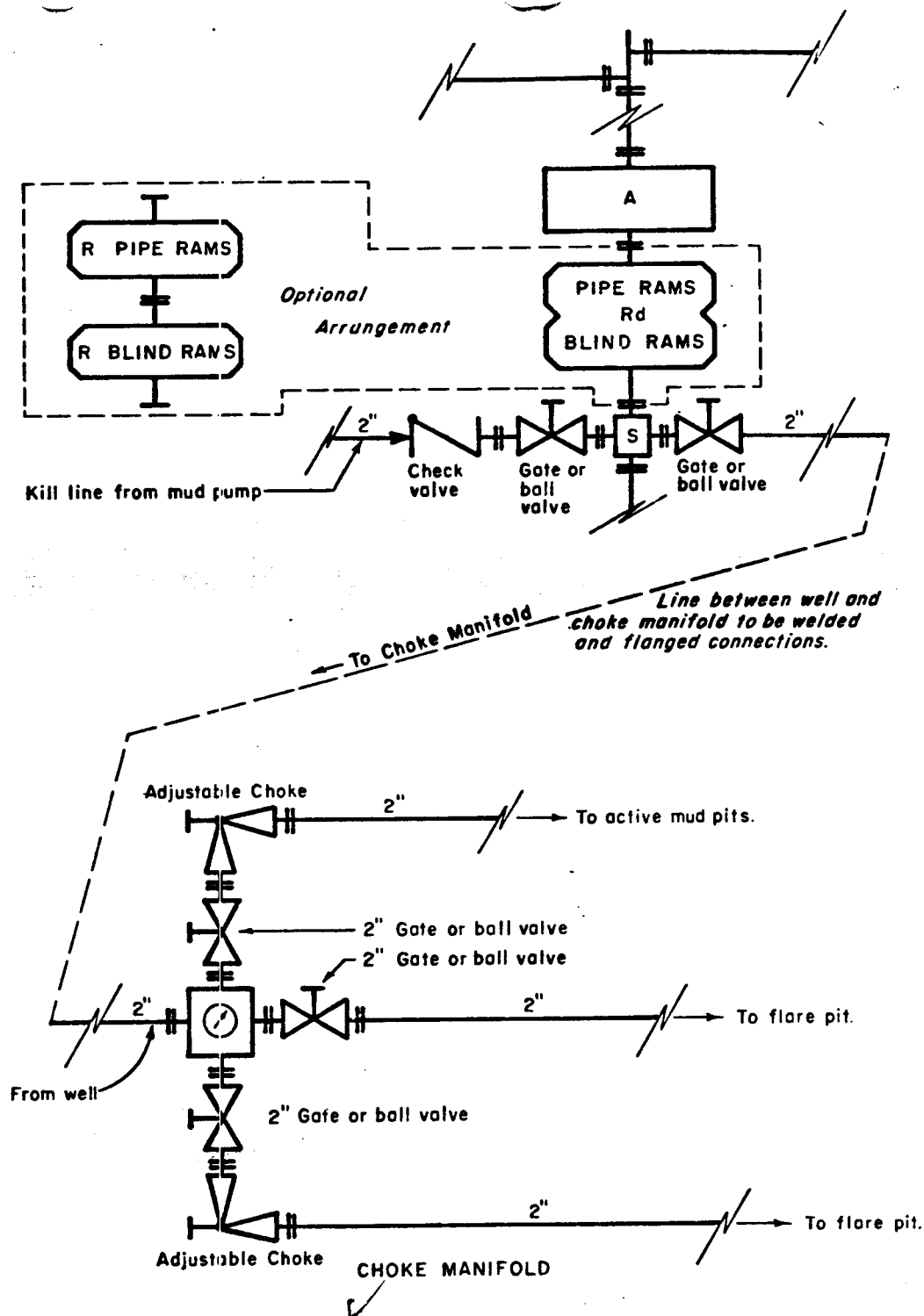
TENNECO OIL COMPANY
P.O. BOX 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

Office Directory

Don S. Barnes	740-4814
John W. Owen	740-4810
Tom Dunning	740-4813
Jack Magill	740-4802
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

- | | | | |
|-----|-----------------------------|----------|--------|
| (1) | Don S. Barnes | 740-4814 | Office |
| | Division Drilling Engineer | 936-0704 | Home |
| (2) | John W. Owen | 740-4810 | Office |
| | Project Drilling Engineer | 795-0221 | Home |
| (3) | Mike Lacey | 797-2651 | Home |
| | Division Production Manager | | |



All equipment to be 3,000 psi working pressure except as noted.

Rd Double ram type preventer with two sets of rams.

R Single ram type preventer with one set of rams.

S Drilling spool with side outlet connections for choke and kill lines.

A Annular type blowout preventer.

ARRANGEMENT B

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AND
CHOKE MANIFOLD

J. MAGILL

10-26-79

EVI

I. EXISTING ROADS

A. Proposed Well Site Location:

The proposed drill site was surveyed by a registered land surveyor on March 24, 1981 and is located 423.5 FSL, 625.5 FEL, Sec 3, T20S, R17E, Grand County, Utah.

B. Planned Access Route:

Access to the location is via U.S. Highway 6 and 50 east of the bridge across the Green River at Green River, Utah, 0.5 miles to an asphalt surfaced road to the North. Proceed North 5.3 miles to an unimproved dirt road to the right. Proceed on this unimproved dirt road keeping to the right at any minor intersections for 1.4 miles and proceed downhill into the floor of Tusher Canyon, continue along this unimproved dirt road for 0.6 miles into the dry stream bed of Tusher Canyon. Proceed Northeasterly up the dry wash bed 6.3 miles to a gate in the fence across the wash bottom. Proceed through gate and continue up wash bottom 0.1 mile to the intersection of the roads to left hand of Tusher Canyon and right hand of Tusher Canyon. Turn left and proceed up the bottom of left hand Tusher Canyon 2.05 miles to the location of Tenneco Oil Butler Canyon Unit USA 3-16.

C. Access Road Labelled:

Color Code: Red - Improved surfaced roads
Blue- Existing road to be improved

D. All existing roads within 3 miles are shown on the attached exhibits 4 and 5.

E. The existing roads are shown in Exhibits 4 and 5.

F. Existing Road Maintenance or Improvement:

The existing road will be improved as needed and per the requirements of the Grand County Road Supervisor. This road may require occasional grading to return the road surface to a cross section necessary for proper drainage.

II. PLANNED ACCESS ROUTE

A. Route Location - (See exhibits 4 and 5)

The planned new access route was selected to provide the shortest distance to the well site with acceptable grades from the main connector road. Temporary access will be built initially. If the facility is productive, the temporary road will be improved to the specifications of the Grand County Road Superintendent.

1. Width:

The average dirt width will be 24 feet. The average traveled surface width will be 18 feet. New road will be 18' crown road, 9' either side of the centerline with drain ditches along either side as needed to provide proper drainage.

2. Maximum Grades: no grades in excess of 8% are anticipated.

3. Turnouts: Turnouts are not required

4. Drainage Design:

Prior to construction of the new access road, the brush and topsoil will be windrowed to each side of the alignment outside construction limits. The subgrade surface will be a minimum elevation of one foot above ditch grade. The road surface will be center crowned and the inslopes will have a maximum slope of 3:1 and fill slopes will be a maximum of 2:1.

5. Culverts Use, Major Cuts and Fills: Culverts will be placed as needed and suggested by the BLM.

Max: cut - 5'

Max: fill - 5'

6. Surfacing Material:

The proposed permanent access road will be constructed with native material.

7. Gates, Cattleguards, Fence Cuts: None

8. New portion of road will be center flagged.

III. LOCATION OF EXISTING WELLS

No wells exist within a 3 mile radius.

Tenneco's Butler Canyon Unit USA #33-12 has been permitted and is located approximately two miles to the NW. In addition, Tenneco has staked the Butler Canyon Unit USA #10-3 located approximately 1/4 mile to the WSW.

IV. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Existing facilities within one mile owned or controlled by Lessee/
Operator: None
- B. New facilities in the event of production:
1. New facilities: May consist of a well head, condensate tank, production unit, meter house, all of which would remain within the disturbed area. Exhibit 6 shows our most typical arrangement for this area.
 2. Dimensions of the facilities are shown in Exhibits 2 and 3.
 3. Construction will be to strip the topsoil, level drilling pad. Dehydrator pits will be constructed with soil materials native to the site. Construction methods will be employed to assure that no drainage flows are impounded to prevent the loss of any hydrocarbon from the site. This is to be done in a manner to facilitate rapid recovery and clean up.
 4. Protective measures to protect wildlife and livestock:
Dehydrator pits shall be overhead flagged should any hydrocarbon material be present on the surface. The dehydrator pits shall be fenced to prevent entry of livestock or wildlife.
- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. Those areas not required for continued usage will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded according to BLM specifications.

V. LOCATION AND TYPE OF WATER SUPPLY

- A. The water source is to be from the State of Utah.
- B. Water transportation system: Water to be hauled in trucks from the NE/4 of sec 16, T20S, R17E. Water trucks will travel a portion of the county road in Right Hand Tusher Canyon as well as the road in Left Hand Tusher Canyon.
- C. Water Wells: None

VI. SOURCE OF CONSTRUCTION MATERIALS

A. Materials:

Construction materials will consist of soil encountered with the boundaries of the proposed site. Topsoil will be stripped to a depth of six inches and stockpiled in an area that does not interfere with operations.

B. Land Ownership:

The planned site and access roads lie on Federal land administered by the United States Department of Interior, U.S. Bureau of Land Management.

C. Materials foreign to site: N/A

D. Access road shown under Exhibits 4 and 5.

VII. METHODS OF HANDLING WASTE MATERIALS

A. Cuttings:

Will be contained within the limits of the reserve pit.

B. Drilling fluids:

Will be retained in the reserve pit.

C. Produced fluids:

No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Prior to clean up operations the hydrocarbon materials will be skimmed or removed as the situation would dictate.

D. Sewage:

Sanitary facilities will consist of at least one chemical toilet and after the completion of operations the sewage will be removed and disposed of at a legal location.

E. Garbage:

A burn cage will be used to burn all flammable material. The small amount of refuse will be removed from the site and disposed of at a legal and environmentally acceptable location.

F. Clean up of well site:

After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole" and "rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

VIII. ANCILLARY FACILITIES

None required.

IX. WELL SITE LAYOUT

A. See Exhibits - 2 and 3

- | | |
|----------------------|--------------------|
| 1. Location of pits: | } exhibits 2 and 3 |
| 2. Rig Orientation: | |

B. Pits will be unlined, unless otherwise required.

X. PLANS FOR RESTORATION OF SURFACE

A. Reserve Pit Cleanup:

The pit will be fenced on three sides prior to drilling and on the fourth side prior to rig release and shall be maintained until cleanup. Prior to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of the site.

B. Restoration Plans - Production Developed:

The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C. Restoration Plans - No Production Developed:

Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and re-seeded per Bureau of Land Management requirements.

XI. OTHER INFORMATION

A. Surface Description: The topography of the land is the arid canyonland variety typical of the "Book Cliffs" in east central Utah. The major drainage is left hand Tusher Canyon and flows generally Southwesterly and eventually joins the Green River. Rock types are typically stratified sandstone with some layers of shale and conglomerates. The soil is generally poor and quite rocky. Vegetation of the subject area is sparsely covered with Juniper and Pinion Pine on the slopes and sagebrush in the lower areas and canyon bottoms.

B. Other Surface-use Activities: The surface is federally owned and managed by the BLM/USGS. Surface is presently used for minimal grazing activity.

C. Proximity of Water, Dwelling, Historical Sites:

1. Water: Tusher Canyon carries a light, intermittent flow of water.
2. Occupied Dwellings: Not existing.
3. Historical Sites: An archaeological reconnaissance has been performed for this location and report is on file with the appropriate USGS/BLM offices.

XII. OPERATOR'S REPRESENTATIVE

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Donald Barnes
P.O. Box 3249
Englewood, Colorado 80155
Phone: (303) 740-4814

Robert A. Mishler
P.O. Box 3249
Englewood, Colorado 80155
Phone: (303) 740-4825

XIII. CERTIFICATION

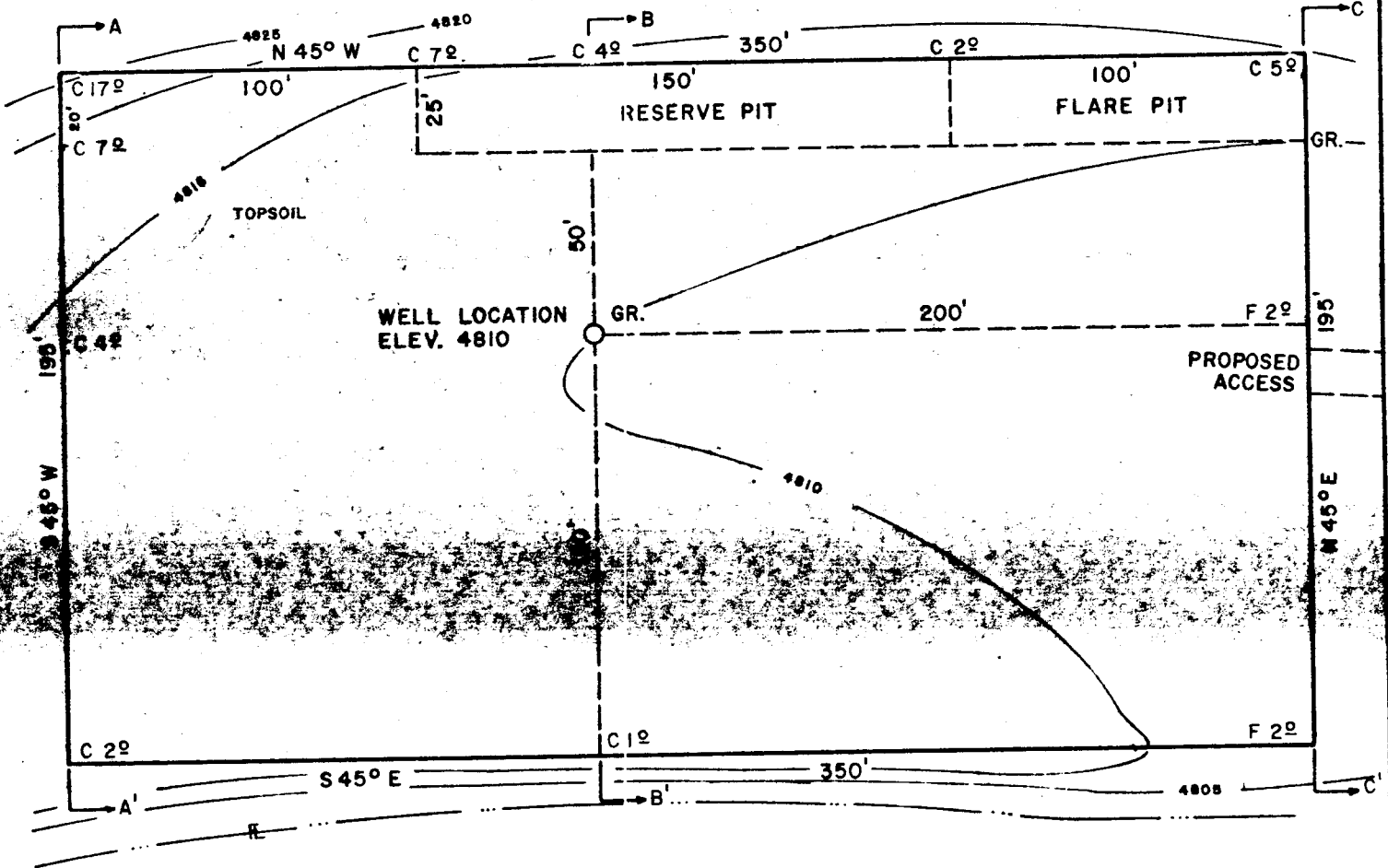
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: August 21, 1981


R. A. Mishler
Senior Production Analyst

PAD TOPOGRAPHY

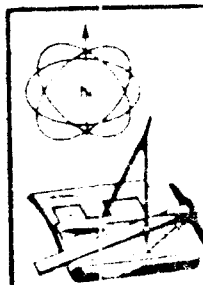
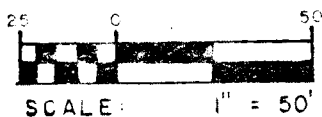
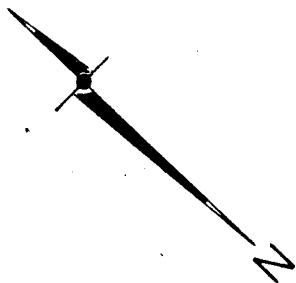
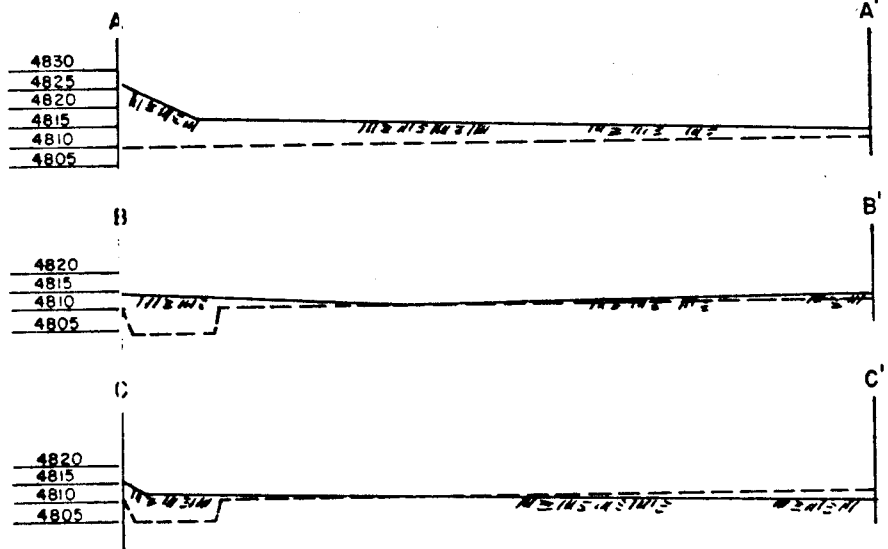
2



REF. PT. 200' EAST
ELEV. 4811'

REF. PT. 200' SOUTH
ELEV. 4861'

REF. PT. 200' WEST
ELEV. 4850



ARMSTRONG ENGINEERS and ASSOCIATES, INC.
ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING
3100 S. GRAND AVENUE, GRAND JUNCTION, COLORADO 81501 (303) 243-1811

1" = 50'

3/30/81

PAP/LHS

3/24/81

TENNECO OIL

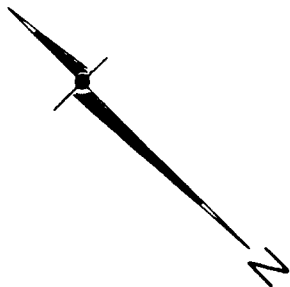
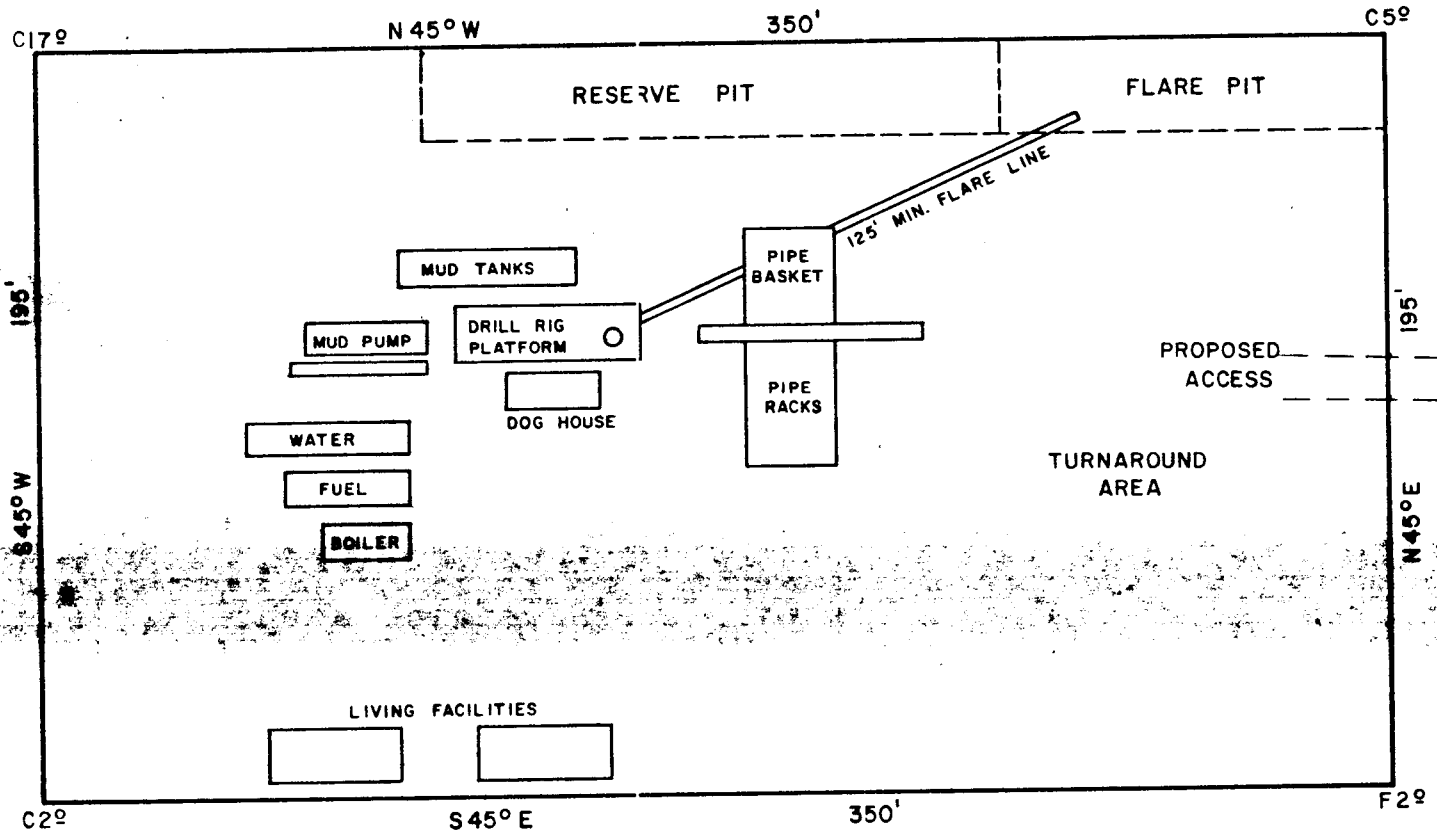
BUTLER CANYON UNIT USA 3-16

SHEET 2 of 5

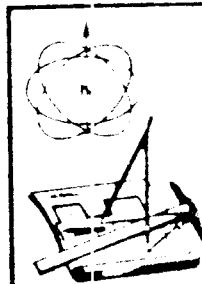
JOB NUMBER

813282

RIG LAYOUT



SCALE: 1" = 50'



ARMED ENGINEERS and ASSOCIATES, INC.
ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING
NEW YORK • GRAND CENTRAL STATION • NEW YORK • TEL. 245-3861

1" = 50'

3-30-81

RLC

3-24-81

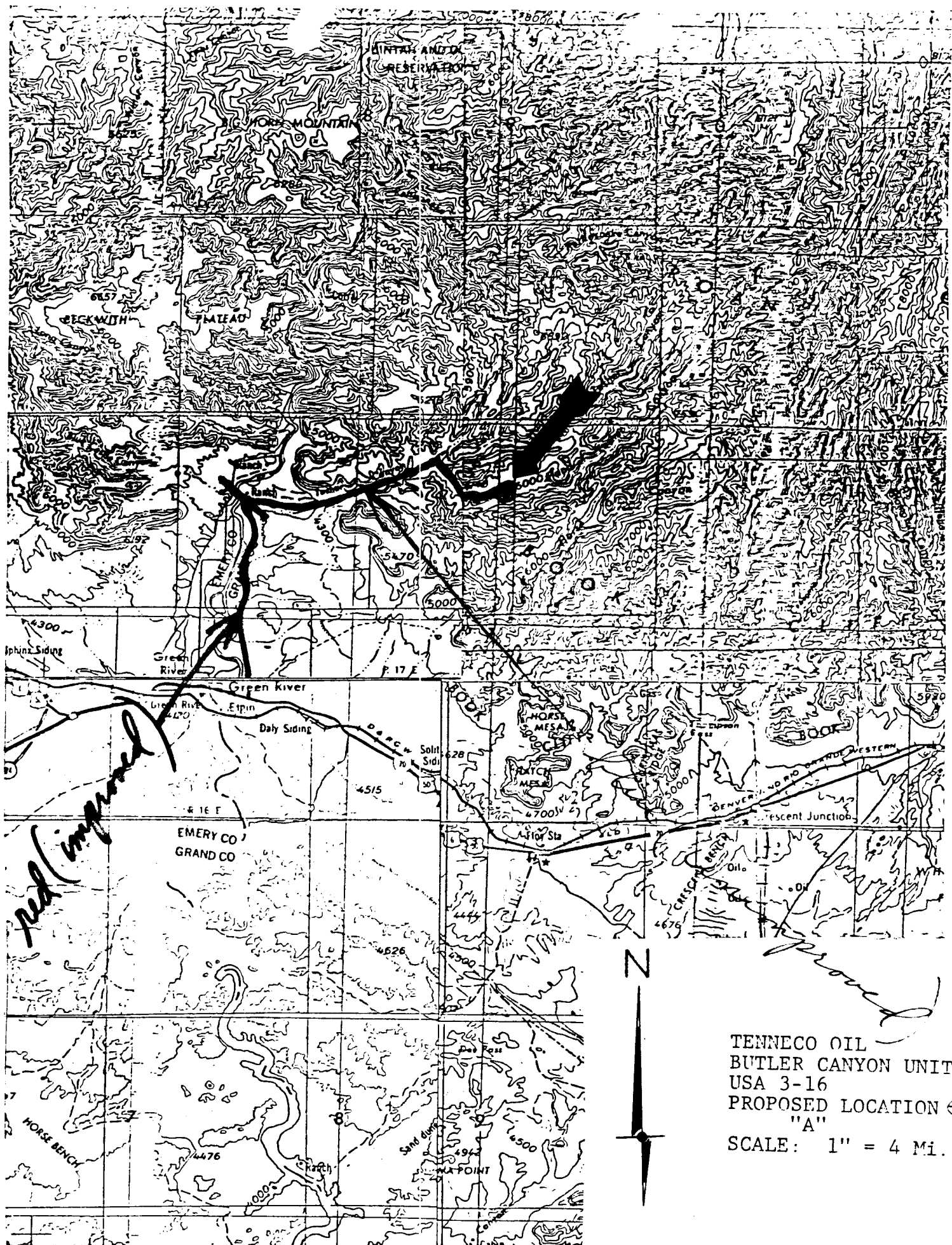
TENNECO OIL

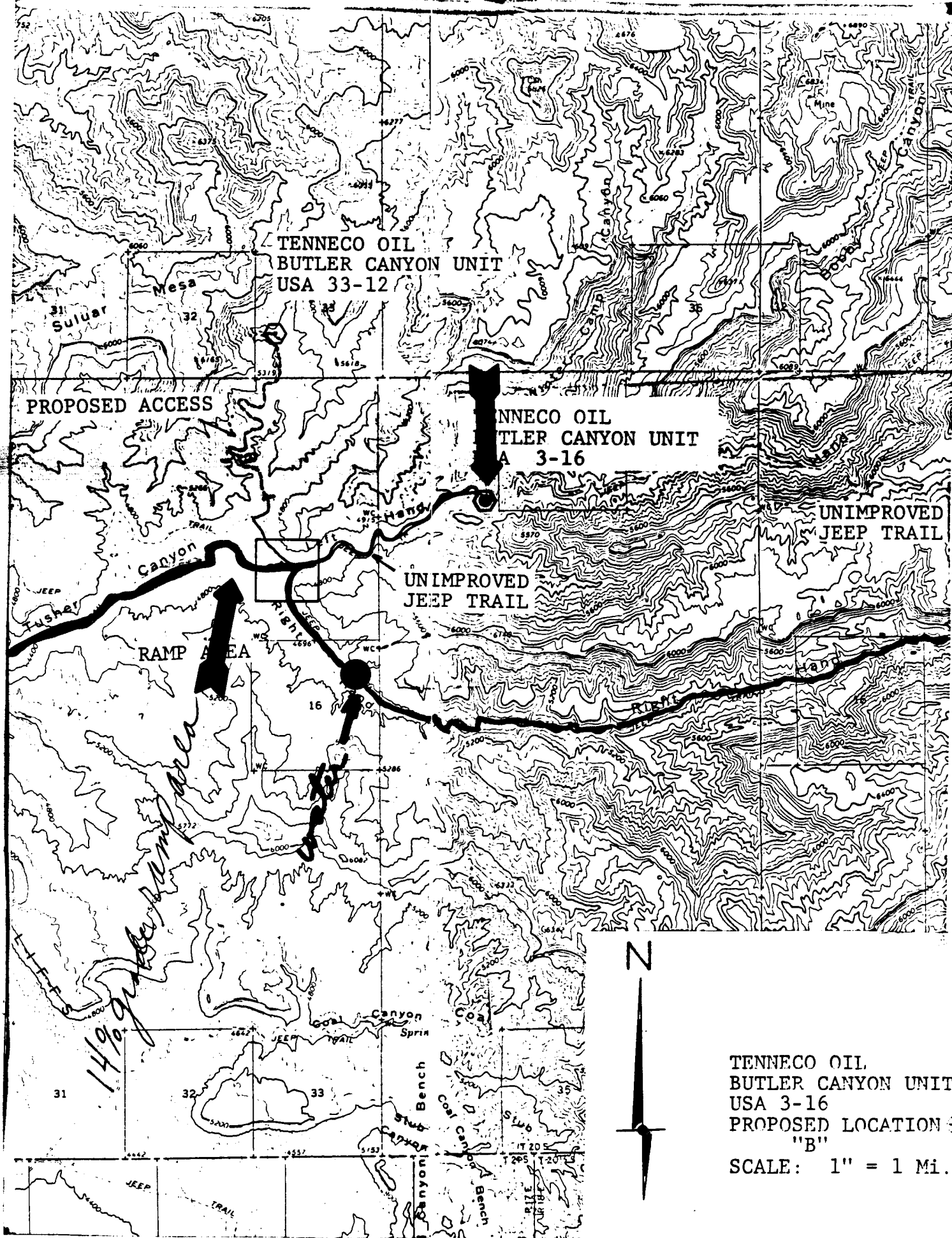
BUTLER CANYON UNIT USA 3-16

SHEET 3 of 5

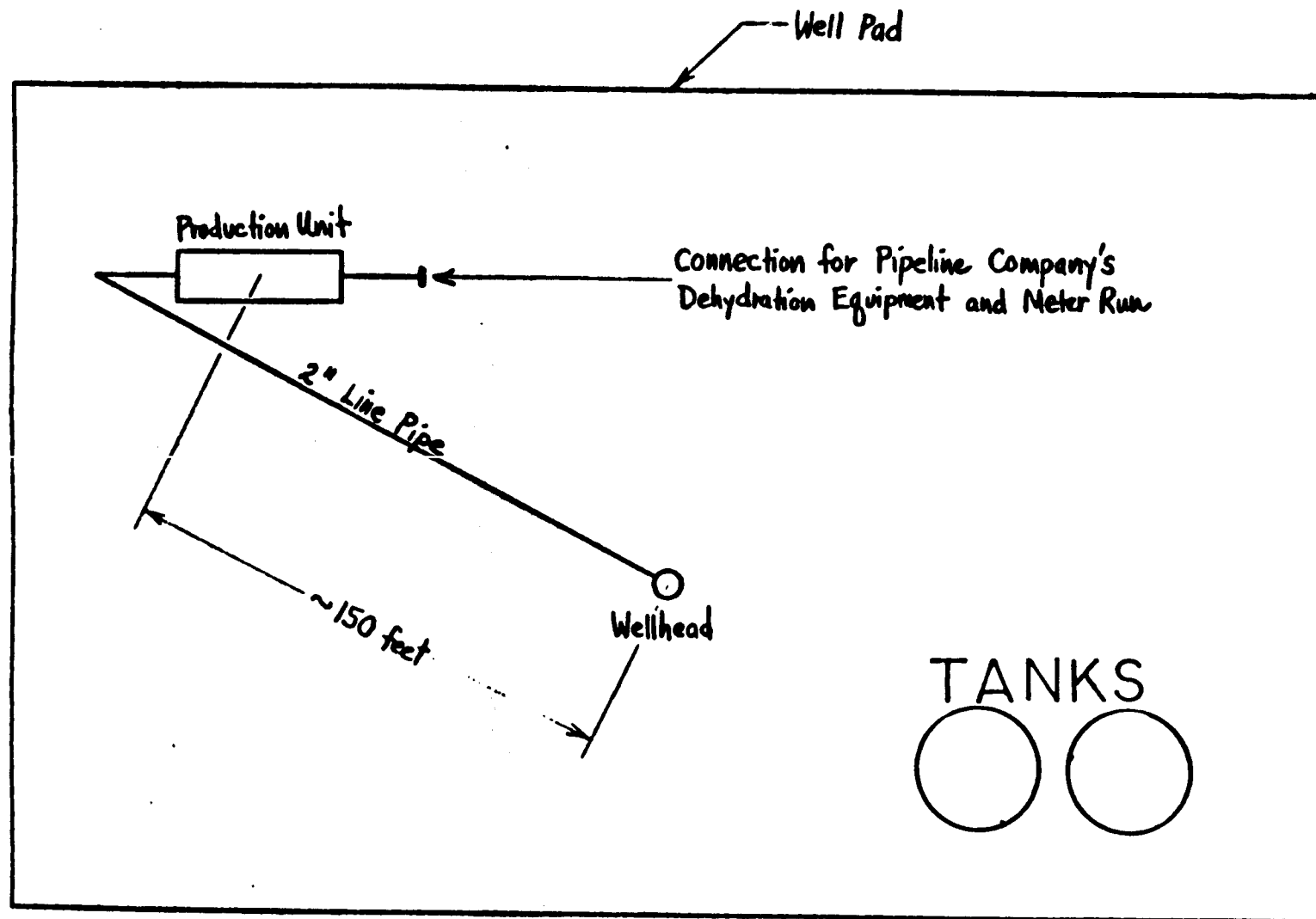
JOB NUMBER

813282





PROBABLE EQUIPMENT INSTALLATION



NOT TO SCALE